



5-15-06

PATENT  
Atty. Docket No. 103186  
Express Mail Label EV 785819720 US

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant(s): Chang et al. Art Unit 1642  
Serial No.: 10/712,359 Examiner: Minh Tam B. Davis  
Filed: November 13, 2003 Conf. No. 1306  
For: DOMINANT NEGATIVE VARIANTS OF METHIONINE  
AMINOPEPTIDASE 2 (MetAP2) AND CLINICAL USES THEREOF

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Commissioner for Patents  
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In accordance with 37 C.F.R. 1.97 and 1.98 and MPEP 609, and in compliance with the duty of disclosure set forth in 37 C.F.R. 1.56, Applicants submit the attached PTO/SB/08A form and copies of one (1) foreign patent document and twenty-six (26) non patent literature documents, for consideration by the Patent and Trademark Office in the above-entitled application and to be made of record therein.

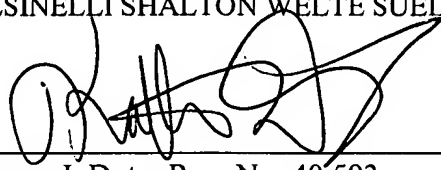
In addition, this First Supplemental Information Disclosure Statement is being submitted pursuant to 37 C.F.R. § 1.97 (b) in that Applicants believe it is being filed prior to the mailing date of the first Office Action on the merits. Accordingly, neither a statement nor fee under 37 C.F.R. § 1.97 (c) or (d) is required. However, if an Office action was issued prior to the date of

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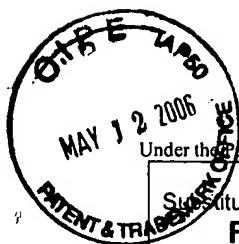
Respectfully submitted,

POLSINELLI SHALTON WELTE SUELTHAUS PC

Date: May 12, 2006



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**FIRST SUPPLEMENTAL  
INFORMATION DISCLOSURE  
STATEMENT BY APPLICATION**  
(Use as many sheets as necessary)

Sheet 1 of 3

**Complete if Known**

Application Number	10/712,359
Filing Date	11/13/2003
First Named Inventor	Chang et al.
Art Unit	1642
Examiner Name	Minh Tam B. Davis
Attorney Docket Number	103186

**U.S. PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Document Number Number-Kind Code <sup>2</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appeal
	BK	4,104,371	08/01/1978	Greven et al.	
	BL	4,119,620	10/10/1978	Nagatsu et al.	
	BM	5,686,416	11/11/1997	Kozarich et al.	
	BN	5,788,989	08/04/1998	Jansen et al.	
	BO	5,985,273	11/16/1999	Reed et al.	
	BP	6,136,604	10/24/2000	Monia et al.	
	BQ	6,184,020	02/06/2001	Blinkovsky et al.	

**FOREIGN PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, columns, lines, Where Relevant Passages Or Relevant Figures Appear	T <sup>6</sup>
	BR	WO 99/18856 A1	04/22/1999	Cytovia, Inc.		

Examiner Signature	Date Considered
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**NON PATENT LITERATURE DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Include name of the authority (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
	BS	ARFIN et al., "Eukaryotic methionyl aminopeptidases: two classes of cobalt-dependent enzyme." Proc Natl Acad Sci USA., 1995, Vol. 92, No. 17, pp. 7714-8	
	BT	AOYAGI et al., "Release of a plasma membrane-bound triaminopeptidase activity from mammalian cells by thermolysin." Biochem Biophys Res Commun., 1978, Vol. 80, No. 2, pp. 435-42.	
	BU	BEN-BASSAT et al., "Processing of the initiation methionine from proteins: properties of the Escherichia coli methionine aminopeptidase and its gene structure." J Bacteriol., 1987, Vol. 169, No. 2, pp. 751-7.	
	BV	CARTER et al., "Aspartate-specific peptidases in Salmonella typhimurium: mutants deficient in peptidase E." J Bacteriol., 1984, Vol. 159, No. 2, pp. 453-9.	
	BW	CHANG, "Purification and characterization of a methionine aminopeptidase from Saccharomyces cerevisiae." J Biol Chem., 1990, Vol. 265, No. 32, pp. 19892-7.	
	BX	COHEN et al., "Amino acid analysis utilizing phenylisothiocyanate derivatives." Anal Biochem., 1988, Vol. 174, No. 1, pp. 1-16.	

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Substitute for form 1449/PTO <b>SUPPLEMENTAL          INFORMATION DISCLOSURE          STATEMENT BY APPLICATION</b> <i>(Use as many sheets as necessary)</i>				<b>Complete if Known</b>	
				Application Number	10/712,359
				Filing Date	11/13/2003
				First Named Inventor	Chang et al.
				Art Unit	1642
				Examiner Name	Minh Tam B. Davis
Sheet	3	Of	3	Attorney Docket Number	103186

	BY	DOI et al., "Modified colorimetric ninhydrin methods for peptidase assay." Anal Biochem., 1981, Vol. 118, No. 1, pp. 173-84.	
	BZ	DOUGHTY et al., "Chloride-insensitive, glycine-phenylalanine-naphthylamide hydrolysis at neutral pH in human skin fibroblasts." Biochem Cell Biol., 1986, Vol. 64, No. 8, pp. 772-81.	
	CA	HARADA et al., "Depth of side-chain pocket in the S2 subsite of dipeptidyl peptidase IV." Biochim Biophys Acta., 1985, Vol. 830, No. 3, pp. 341-4.	
	CB	IKEHARA et al., "Dipeptidyl-peptidase IV from rat liver." Methods Enzymol., 1994, Vol. 244, pp. 215-27.	
	CC	JADOT et al., "Intralysosomal hydrolysis of glycyl-L-phenylalanine 2-naphthylamide." Biochem J., 1984, Vol. 219, No. 3, pp. 965-70.	
	CD	JAIN, "Barriers to drug delivery in solid tumors." Sci Am., 1994, Vol. 271, No. 1, 58-65	
	CE	LARRABEE et al., "High-pressure liquid chromatographic method for the assay of methionine aminopeptidase activity: application to the study of enzymatic inactivation." Anal Biochem., 1999, Vol. 269, No. 1, pp. 194-8.	
	CF	LIN, "Purification and characterization of an enzyme hydrolyzing L-methionine-4-nitroanilide from germinated sweet potato roots." Bot Bull Acad Sin., Vol. 35, pp. 25-32, 1994.	
	CG	LIU et al., "Structure of human methionine aminopeptidase-2 complexed with fumagillin." Science., 1998, Vol. 282, No. 5392, pp. 1324-7.	
	CH	LOWTHER et al., "The anti-angiogenic agent fumagillin covalently modifies a conserved active-site histidine in the Escherichia coli methionine aminopeptidase." Proc Natl Acad Sci U S A., 1998, Vol. 95, No. 21, pp. 12153-7.	
	CI	MOERSCHHELL et al., "The specificities of yeast methionine aminopeptidase and acetylation of amino-terminal methionine in vivo. Processing of altered iso-1-cytochromes c created by oligonucleotide transformation." J Biol Chem., 1990, Vol. 265, No. 32, pp. 19638-43.	
	CJ	MOORE et al., "Chromatography of amino acids on sulfonated polystyrene resins." Analyt. Chem., 1958, Vol. 30, pp. 1185-1190.	
	CK	PROOST et al., "Truncation of macrophage-derived chemokine by CD26/ dipeptidyl-peptidase IV beyond its predicted cleavage site affects chemotactic activity and CC chemokine receptor 4 interaction." J Biol Chem., 1999, Vol. 274, No. 7, pp. 3988-93.	
	CL	ROTH, "Fluorescence reaction for amino acids." Anal Chem., 1971, Vol. 43, No. 7, pp. 880-2.	
	CM	SMACCHI et al., "Purification and characterization of an extracellular proline iminopeptidase from Arthrobacter nicotianae 9458." FEMS Microbiol Lett., 1999, Vol. 178, No. 1, pp. 191-7.	
	CN	STEIN et al., "Amino acid analysis with fluorescamine at the picomole level." Arch Biochem Biophys., 1973, Vol. 155, No. 1, pp. 202-12.	
	CO	TSUNASAWA et al., "Amino-terminal processing of mutant forms of yeast iso-1-cytochrome c. The specificities of methionine aminopeptidase and acetyltransferase." J Biol Chem., 1985, Vol. 260, No. 9, pp. 5382-91.	
	CP	WALKER et al., "Yeast (Saccharomyces cerevisiae) methionine aminopeptidase I: rapid purification and improved activity assay." Biotechnol Appl Biochem., 1999, Vol. 29, Pt 2, pp. 157-63.	
	CQ	WEI et al., "Continuous spectrophotometric assay of peptide deformylase." Anal Biochem.,	

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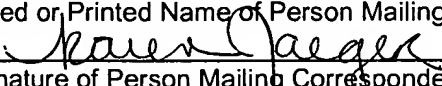
		1997, Vol. 250, No. 1, pp. 29-34	
	CR	ZHOU et al., "Two Continuous Spectrophotometric Assays For Methionine Aminopeptidase." Analytical Biochemistry, 2000, Vol. 280, pp. 159-65.	
	CS	ZUO et al., "A protease assay via precolumn derivatization and high-performance liquid chromatography." Anal Biochem., 1994, Vol. 222, (2), pp. 514-6.	

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Applicants: Chang et al.			<b>103186</b>
Serial No.	Filing Date	Examiner	Group Art Unit
10/712,359	11/13/2003	Minh Tam B. Davis	1642
Invention: DOMINANT NEGATIVE VARIANTS OF METHIONINE AMINOPEPTIDASE 2 (MetAP2) AND CLINICAL USES THEREOF			
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